

Notice of Allowability

Application No.

09/737,743

Examiner

Phuong Phu

Applicant(s)

SUTARDJA, SEHAT

Art Unit

2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment filed on 9/1/04.
2. ☒ The allowed claim(s) is/are 1-10,17-27,34-39,44,46,48,50,51,54,55,58,59 and 85-96.
3. ☒ The drawings filed on 18 December 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

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EXAMINER'S AMENDMENT

1. This Office Action is responsive to the Amendment filed on 9/1/04.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Andrew Bateman on 12/10/04.

The application has been amended as follows:

IN THE CLAIMS:

- Claims 60-84 (filed in the Preliminary Amendment on 11/03/03) have been canceled.
- Claims 60-71 (newly-added in the Amendment filed on 9/1/04) have been replaced by respective claims 85-96, as following:

85. A communication circuit, comprising:

- a near end transmitter;
- a hybrid including an input in communication with an output of the near end transmitter;
- a near end replication transmitter;
- a high pass filter responsive to the near end replication transmitter for high-pass filtering a signal received from the near end replication transmitter;
- a subtractor to subtract an output from the high pass filter from the output from the near end transmitter and an output of the hybrid; and
- a near end receiver responsive to an output of the subtractor.

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86. The communication circuit of claim 85, wherein the hybrid comprises an isolation transformer.
87. The communication circuit of claim 85, wherein the hybrid comprises an active circuit.
88. The communication circuit of claim 85, wherein the near end replication transmitter is adjustable.
89. The communication circuit of claim 88, wherein the near end replication transmitter comprises an adjustable gain control.
90. The communication circuit of claim 88, wherein the near end replication transmitter comprises a current generator in communication with an adjustable load.
91. The communication circuit of claim 88, wherein the near end replication transmitter comprises an adjustable current generator in communication with a load.
92. The communication circuit of claim 88, wherein the near end replication transmitter maximizes the amplitude matching between the near end transmitter and the near end replication transmitter.
93. The communication circuit of claim 85, further comprising: an adjustable capacitive load in communication with the near end replication transmitter to maximize signal delay matching between the near end transmitter and the near end replication transmitter.
94. The communication circuit of claim 93, further comprising: an adaptive control circuit, wherein the adjustable capacitive load is responsive to the adaptive control circuit.
95. The communication circuit of claim 85, wherein the high pass filter comprises an inductor including characteristics similar to the hybrid.

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96. The communication circuit of claim 85, wherein the high pass filter comprises a combination of a resistance and a capacitance.

REASONS FOR ALLOWANCE

3. Claims 1-10, 17-27, 34-39, 44, 46, 48, 50, 51, 54, 55, 58, 59 and 85-96 are allowed.

4. The following is an examiner's statement of reasons for allowance:

References (4362909), (5222084), (5388092), (4888762), (4727566) and (20040208312) are additionally cited because they are pertinent to the claimed invention.

Regarding to independent claims 1, 17, 35, 44, 46, 48 and 85, none of prior art of record teaches or suggests the invention as claimed. Reference Agazzi (4,999,830), previously cited, teaches a method and associated system, as claimed, except Agazzi fails to teach the method/system comprises a procedure/device having a near end replication transmitter; a procedure/device having a high pass filter responsive to said near end replication transmitter; a procedure/device having a subtractor to subtract an output from said high pass filter from the output from said near end transmitter and an output of a hybrid, in combinations with other limitations recited in the claims; with at least reasons set forth on pages 18-23, in REMARKS of the Amendment filed on 9/1/04. It would not have been obvious for one skilled in the art to implement Agazzi in view of other prior art of record in order to make such an implementation lead to the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (6:30-2:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Phu
Phuong Phu
12/13/04

PHUONG PHU
PRIMARY EXAMINER

Phuong Phu
Primary Examiner
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